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UTILITY PATENT APPLICATION **TRANSMITTAL**

| Attorney Docket No. | API-1047 |
|------------------------|--------------------------------|
| First Inventor | Jay Reimers |
| Title | Heat Exchanger and Process for |
| Express Mail Lahel No. | EV322404172US |

| (Only for new nonprovisional applications under 37 CPR 1.55(b)) | Express Mail Label No. L V 3224 | 0+11200 | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|
| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents. | ADDRESS TO: Mail Stop Pa | ner for Patents tent Application 50 /A 22313-1450 | | | | | | | | |
| 1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 18] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description | 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Reader Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS | | | | | | | | | |
| - Claim(s) - Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets 2] 5. Oath or Declaration [Total Sheets] a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76 | 9. Assignment Papers (cover 10. 37 CFR 3.73(b) Statement (when there is an assignet English Translation Docurt Information Disclosure Statement (IDS)/PTO-149 13. Preliminary Amendment Return Receipt Postcard (Should be specifically item (Should be specifically item (Foreign priority Is claimed Nonpublication Request u (b)(2)(B)(i). Applicant musor its equivalent. | r sheet & document(s)) t | | | | | | | | |
| 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: | | | | | | | | | | |
| Prior application information: Examiner Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. | | | | | | | | | | |
| 19. CORRESPONDENCE ADDRESS | | | | | | | | | | |
| Customer Number or Bar Code Label (Insert Customer No. or A | or Littach bar code label here) | Correspondence address below | | | | | | | | |
| Name | | | | | | | | | | |
| Address | | | | | | | | | | |
| City | State | Zip Code | | | | | | | | |
| | elephone | Fax | | | | | | | | |
| Name (Print/Type) Corne Tyler / | Registration No. (Attorney/Agent) | 35,395 | | | | | | | | |
| Signature Gente L. Tyler | | Date 07/31/03 | | | | | | | | |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| FEE TRANSMITTAI for FY 2003 Effective 01/01/2003. Patent fees are subject to annual revision. | | | Complete if Known | | | | | | | |
|---|------------------------------|--------------|---|--------------|----------------------|--------------------------------------|------------------|------------|-------------------------|--|
| | | | Application Number | | | | | | | |
| | | | Filing Date July 31 | | | July 31, | , 2003 | | | |
| | | | First Named Inventor Jay Rei | | | tor Jay Rein | mers | | | |
| | | | Exam | iner Na | ame | N/A | | | | |
| Applicant claims small entity status. See 37 CFR 1.27 | | | Art Unit N/A | | | | | | | |
| TOTAL AMOUNT OF PAYMENT (\$) 750 | | | Attorn | ey Doo | cket No | o. API-104 | 17 | | | |
| METHOD OF PAYMENT (check all that apply) | | | FEE CALCULATION (continued) | | | | | | | |
| Check Credit card Money Other None | | | 3. ADDITIONAL FEES | | | | | | | |
| Deposit Account: | | | Entity Fee | | <u>Entity</u> Fee | | | | | |
| Deposit 13-0010 (API-104 | 7) | Fee Code | | Code | | Fee L | Description | | Fee Paid | |
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| Deposit Account Madan, Mossman & Sriram, P.C. | | | 50 | 2052 | | Surcharge - late cover sheet | provisional fil | ing fee or | | |
| Name The Director is authorized to: (check all that apply) | | | 130 | 1053 | | Non-English spe | | | ├ | |
| Charge fee(s) indicated below | Credit any overpayments | | 2,520 | 1812 2 | | For filing a reque | • | | ├ ─ ──┤ │ | |
| Charge any additional fee(s) during the | pendency of this application | 1804 | 920* | 1804 | | Requesting publ Examiner action | | prior to | <u> </u> | |
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| FEE CALCULA | TION | 1251 | 110 | 2251 | 55 | Extension for re | ply within first | month | 1 11 | |
| 1. BASIC FILING FEE | TION | 1252 | 410 | 2252 | 205 | Extension for re | eply within sec | ond month | ├ | |
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| Fee Fee Fee Fee Descri | otion Fee Paid | 1254 | 1,450 | 2254 | 725 | Extension for re | ply within fou | rth month | <u> </u> | |
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| 1002 330 2002 165 Design fili | \$750 ng fee | 1401 | 320 | 2401 | 160 | Notice of Appea | aí | | | |
| 1003 520 2003 260 Plant filing | j fee | 1402 | 320 | 2402 | 160 | Filing a brief in | support of an | appeal | <u> </u> | |
| 1004 750 2004 375 Reissue fi | ling fee | 1403 | 280 | 2403 | 140 | Request for ora | l hearing | | | |
| 1005 160 2005 80 Provisiona | al filing fee | 1 | 1,510 | | | Petition to institu | • | | } | |
| SUBTOTAL | . (1) (\$) \$750 | 1452 | 110 | 2452 | 55 | Petition to revive | e - unavoidab | le | ├I | |
| 2. EXTRA CLAIM FEES FOR U | III ITY AND REISSUE | • | 1,300 | 2453 | | Petition to reviv | | nal | | |
| | Fee from | | 1,300 470 | 2501 2502 | | Utility issue fee Design issue fe | | | | |
| Total Claims 20 -20** = | ns below Fee Paid X \$18 = | 1502 1503 | 630 | 2502 | | Plant issue fee | .6 | | | |
| Independent 3 3** - X \$84 | | 1460 | 130 | 1460 | | Petitions to the | Commissione | ar . | | |
| Claims Multiple Dependent | | | 50 | 1807 | | Processing fee | | | | |
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| | escription | 8021 | 40 | 8021 | | Recording each | | | | |
| | excess of 20 | ļ | | } | | property (times | number of pre | operties) | | |
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| 1203 280 2203 140 Multiple | dependent claim, if not paid | 1810 | 750 | 2810 | 375 | For each additi | | | | |
| | ue independent claims | 1801 | 750 | 2801 | 275 | examined (37 (Request for Co | | | | |
| over original patent 1205 18 2205 9 ** Reissue claims in excess of 20 | | 1802 | | 1802 | | Request for ex | | | | |
| 1205 18 2205 9 Reissue claims in excess of 20 and over original patent | | | of a design application | | | | | | | |
| SUBTOTAL (2) (\$) | | | ther fee (specify) Reduced by Basic Filing Fee Paid SURTOTAL (3) (\$) | | | | | | | |
| **or number previously paid, if greater; For Reissues, see above | | | | Dasic I | ming P | ee raiu (| SUBTOTAL | (3) (\$) | | |
| SUBMITTED BY (Complete (if applicable) | | | | | | | | | | |
| Name (Print/Type) Gena L. Tyler | | | Registration No. (Attorney/Agent) 35,395 Telephone (713) 266-1130 | | | | 30 | | | |
| Signature | | | | | | Date | July 31, 2003 | | | |

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